

Appl. No. 10/675,303

Reply to Office Action of September 6, 2006

This listing of claims will replace all prior versions, and listings, of claims in the application.

LISTING OF CLAIMS

1. (previously presented) A method to adapt a hearing device, comprising:

5 providing evaluation data for various predetermined auditory situations;
adapting the hearing device to a hearing aid device user with individual
weighting via a continuous weighting function that runs via
supporting points that respectively represent an individual weighting
of the evaluation data of one of the predetermined auditory
10 situations, wherein the evaluation data comprise weighting vectors
with regard to specific audio signals that are characteristic of the
predetermined auditory situations; and
determining the weighting vectors by performing an eigenvector analysis
of the specific audio signals.

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2. (original) The method according to claim 1, further comprising:

performing a sound signal analysis; and
determining the evaluation data based on results of the sound signal
analysis.

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3-4. (cancelled).

5. (original) The method according to claim 1, further comprising determining the
weighting function for the individual weighting from auditory situations
25 characteristic for the hearing device user.

Appl. No. 10/675,303

Reply to Office Action of September 6, 2006

6. (original) The method according to claim 1, further comprising determining the weighting function from at least one adaptation parameter and at least one value of the evaluation data.

5 7. (previously presented) A method for operating a hearing device, comprising:

recording an audio signal of a current auditory situation;

calculating signal evaluation data from the audio signal;

weighting the signal evaluation data utilizing a continuous weighting

10 function that is acquired by ~~according to one or more of the~~
~~following:~~

a) ~~utilizing supporting points that respectively represent an~~
~~individual weighting of the evaluation data of a~~
~~predetermined auditory situation;~~

15 b) ~~utilizing weighting vectors with regard to specific audio signals~~
~~that are characteristic of a the predetermined auditory~~
~~situation;~~

c) ~~utilizing weighting vectors determined by performing an~~
~~eigenvector analysis of the specific audio signals;~~

20 d) ~~utilizing weighting vectors that are determined for the individual~~
~~weighting from auditory situations characteristic for the~~
~~hearing device user; and~~

e) ~~utilizing at least one adaptation parameter and at least one value~~
~~of the evaluation data;~~

25 adapting the hearing device according to the weighted signal evaluation
data to the current auditory situation; and

determining the weighting vectors by performing an eigenvector analysis
of the specific audio signals.

8. (original) The method for operating a hearing device according to claim 7, wherein the adapting of the hearing device is performed under real-time conditions.

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9. (currently amended) A device to adapt a hearing device, comprising:

a storage device configured to provide evaluation data for various predetermined auditory situations;

10 an adaptation device configured to adapt the hearing device to a hearing aid device user using individual weighting;

15 a continuous weighting function configured to implement, with the adaptation device, the individual weighting , the continuous weighing function configured to run via supporting points which respectively represent an individual weighting of the evaluation data of one of the predetermined auditory situations of the storage device, wherein the evaluation data comprise weighting vectors with regard to specific audio signals that are characteristic of the predetermined auditory situations; and

20 an analysis device with which the weighting vectors can be determined via eigenvector analysis of the specific audio signals.

10. (original) The device according to claim 9, further comprising:

25 a sound signal analysis device with which the evaluation data can be determined for the predetermined situations, and from which the evaluation data can be transferred to the storage device.

11-12. (cancelled).

Appl. No. 10/675,303

Reply to Office Action of September 6, 2006

13. (original) The device according to claim 9, further comprising an offline adjustment device configured to determine the weighting function for the individual weighting from auditory situations characteristic for the hearing device user.

14. (original) The device according to claim 13, wherein the weighting function can be determined from at least one adaptation parameter and a plurality of the evaluation data via the offline adjustment device.

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15. (currently amended) A hearing device, comprising:

a recording device configured to record an audio signal of a current auditory situation;

15 a computer device configured to calculate signal evaluation data from the audio signal;

a weighting device configured to weight the signal evaluation data with the aid of a continuous weighting function;

20 a control device or regulation device configured to adapt the hearing device according to the weighted signal evaluation data to the current auditory situation, wherein the evaluation data comprise weighting vectors with regard to specific audio signals that are characteristic of a predetermined auditory situation, and;

an analysis device with which the weighting vectors can be determined via eigenvector analysis of the specific audio signals.

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16. (original) The hearing device according to claim 15, wherein the control device or regulation device is configured to adapt under real-time conditions.